

THE DPT MINILIFT PUMP STATION



MINILIFT PUMP STATION

OVERVIEW

Flood-proof, double lifting station, for automatic sewage pumping from areas below the backwash level in accordance with EN 12050-1.

The MiniLift is used for reliable and economical discharge of wastewater under pressure using small diameter discharge lines.

Suitable for new installations or for renovation of old buildings.

FEATURES

- Ready for installation; robust, compact tank, for buildings containing a number of dwellings and for small industry.
- Easily transported and fitted. Compact dimensions allow passage through a standard door opening.
- Fitted with submersible grinder pumps for problem-free pumping of sewage and wastewater containing faecal matter in pipe lines from 1¼" diameter (DN 32).
- Five horizontal inlet ports (1 x DN 150, 4 x DN 100) and six vertical (1 x DN 150, 2 x DN 100, 1 x DN 70, 1 x DN 50, 1 x DN 40). DN 40 is suitable for the connection of a hand membrane pump.
- Pumps high head up to 30 m. Most suitable for applications with minimum head of 8 m.
- Cast iron discharge outlet with threaded flange G 1¼".
- Shredding system consisting of a spiral bottom plate containing a stationary cutter ring with cutting edges and a shredding rotor located below the impeller, reduces the medium for optimum blockage-free running.
- Shaft sealing between motor and hydraulic section by means of a single mechanical seal of silicon carbide, independent of direction of rotation, resistant to temperature shock and to dry running. Motor side: lip seal, oil lubricated.
- Motor shaft is mounted in lubricated-for-life, maintenance-free ball bearings. Maximum allowable temperature of medium is 40 °C, or up to 60 °C intermittent for a maximum of five minutes.



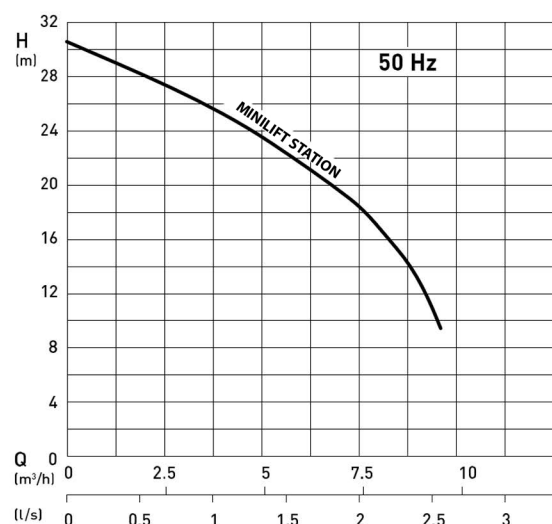
TANK OVERVIEW

Synthetic, corrosion-resistant, gas- and odour-tight tank, in accordance with EN 12050-1. Supplied as standard with pumps, non-return valves and control panel with automatic level control and alarm (pipework not included). Capacity: 130 liters

MOTOR OVERVIEW

Water pressure sealed, squirrel cage 2-pole induction motor, with double shaft seals and oil chamber. Electronic monitoring of stator temperature and overcurrent. Insulation: Class F for 155 °C. Protection type: IP68

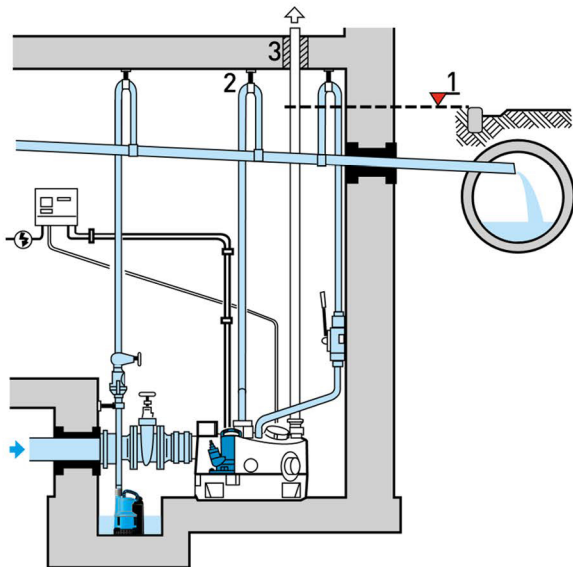
PERFORMANCE CURVE



MINILIFT PUMP STATION

INSTALLATION

Attention to the backwash level is of vital importance for effective dewatering. All outflow points located below the backwash level must be protected against back flow according to standard EN 12056.



MATERIALS

Description	Material
Tank	Polyethylene (PE)
Motor housing	Cast iron EN-GJL-250
Rotor shaft	Stainless steel 1.4021 (AISI 420)
Volute	Cast iron EN-GJL-250
Impeller	Cast iron EN-GJL-250
Bottom plate	Cast iron EN-GJL-250
Fasteners	Stainless steel 1.4401 (AISI 316)

TECHNICAL DATA

PUMP DATA	1002 D
Motor power [kW]*	P ₁ = 2.3 P ₂ = 1.7
Speed [r/min]	2900
Rated voltage [V]	400 3~
Rated current [A]	4.0
Cable type [S1BN8-F]	4G1.5
Cable length [m]**	4.0
Weight [kg]***	98

* P₁ = Power taken from mains.

P₂ = Power at motor shaft.

** Control unit fitted with 1.5 m cable and plug.

*** Additional weight of hand membrane pump = 13 kg

CONNECTIONS

1. Inflow DN 100
2. Inflow DN 100
3. Inflow DN 100
4. Inflow DN 100
5. Inflow DN 150
6. Inflow/Vent DN 100
7. Inflow/Vent DN 100
8. Inflow DN 50
9. Inflow DN 150
10. Inflow/Hand membrane pump DN 40
11. Inflow/Vent DN 70
12. Discharge line DN 32 with ball valve
13. Discharge line DN 32 with ball valve

INLET DIAMETERS

Ø	(mm)
DN 70	+0.2 Ø 75 -1.0
DN 100	+0.3 Ø 110 -1.0
DN 150	+0.4 Ø 160 -1.5

